

Paul D Docherty

List of Publications by Year in descending order

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Version: 2024-02-01

130
papers

1,418
citations

393982

19
h-index

395343

33
g-index

131
all docs

131
docs citations

131
times ranked

631
citing authors

#	ARTICLE	IF	CITATIONS
1	A physiological Intensive Control Insulin-Nutrition-Glucose (ICING) model validated in critically ill patients. <i>Computer Methods and Programs in Biomedicine</i> , 2011, 102, 192-205.	2.6	169
2	A graphical method for practical and informative identifiability analyses of physiological models: A case study of insulin kinetics and sensitivity. <i>BioMedical Engineering OnLine</i> , 2011, 10, 39.	1.3	90
3	Time-Varying Respiratory System Elastance: A Physiological Model for Patients Who Are Spontaneously Breathing. <i>PLoS ONE</i> , 2015, 10, e0114847.	1.1	66
4	Characterisation of the iterative integral parameter identification method. <i>Medical and Biological Engineering and Computing</i> , 2012, 50, 127-134.	1.6	65
5	The dynamic insulin sensitivity and secretion test—a novel measure of insulin sensitivity. <i>Metabolism: Clinical and Experimental</i> , 2011, 60, 1748-1756.	1.5	52
6	Improvements in Glucose Metabolism and Insulin Sensitivity with a Low-Carbohydrate Diet in Obese Patients with Type 2 Diabetes. <i>Journal of the American College of Nutrition</i> , 2013, 32, 11-17.	1.1	48
7	Optimising mechanical ventilation through model-based methods and automation. <i>Annual Reviews in Control</i> , 2019, 48, 369-382.	4.4	47
8	Design and Clinical Pilot Testing of the Model-Based Dynamic Insulin Sensitivity and Secretion Test (DISST). <i>Journal of Diabetes Science and Technology</i> , 2010, 4, 1408-1423.	1.3	46
9	Structural Identifiability and Practical Applicability of an Alveolar Recruitment Model for ARDS Patients. <i>IEEE Transactions on Biomedical Engineering</i> , 2012, 59, 3396-3404.	2.5	46
10	Predictive Virtual Patient Modelling of Mechanical Ventilation: Impact of Recruitment Function. <i>Annals of Biomedical Engineering</i> , 2019, 47, 1626-1641.	1.3	41
11	DISTq: An Iterative Analysis of Glucose Data for Low-Cost, Real-Time and Accurate Estimation of Insulin Sensitivity. <i>Open Medical Informatics Journal</i> , 2009, 3, 65-76.	1.0	37
12	Assessing respiratory mechanics using pressure reconstruction method in mechanically ventilated spontaneous breathing patient. <i>Computer Methods and Programs in Biomedicine</i> , 2016, 130, 175-185.	2.6	32
13	Iterative integral parameter identification of a respiratory mechanics model. <i>BioMedical Engineering OnLine</i> , 2012, 11, 38.	1.3	29
14	Use of basis functions within a non-linear autoregressive model of pulmonary mechanics. <i>Biomedical Signal Processing and Control</i> , 2016, 27, 44-50.	3.5	24
15	Continuous Stroke Volume Estimation from Aortic Pressure Using Zero Dimensional Cardiovascular Model: Proof of Concept Study from Porcine Experiments. <i>PLoS ONE</i> , 2014, 9, e102476.	1.1	23
16	Prediction of lung mechanics throughout recruitment maneuvers in pressure-controlled ventilation. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 197, 105696.	2.6	22
17	Model-based PEEP titration versus standard practice in mechanical ventilation: a randomised controlled trial. <i>Trials</i> , 2020, 21, 130.	0.7	22
18	Independent cohort cross-validation of the real-time DISTq estimation of insulin sensitivity. <i>Computer Methods and Programs in Biomedicine</i> , 2011, 102, 94-104.	2.6	21

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19	Structural identifiability analysis of a cardiovascular system model. <i>Medical Engineering and Physics</i> , 2016, 38, 433-441.	0.8	21
20	Extrapolation of a non-linear autoregressive model of pulmonary mechanics. <i>Mathematical Biosciences</i> , 2017, 284, 32-39.	0.9	21
21	A Novel Fabrication Method for Compliant Silicone Phantoms of Arterial Geometry for Use in Particle Image Velocimetry of Haemodynamics. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3811.	1.3	20
22	Reformulation of the pressure-dependent recruitment model (PRM) of respiratory mechanics. <i>Biomedical Signal Processing and Control</i> , 2014, 12, 47-53.	3.5	19
23	Contact force and torque sensing for serial manipulator based on an adaptive Kalman filter with variable time period. <i>Robotics and Computer-Integrated Manufacturing</i> , 2021, 72, 102210.	6.1	18
24	Shedding light on grey noise in diabetes modelling. <i>Biomedical Signal Processing and Control</i> , 2017, 31, 16-30.	3.5	17
25	Fabrication of a compliant phantom of the human aortic arch for use in Particle Image Velocimetry (PIV) experimentation. <i>Current Directions in Biomedical Engineering</i> , 2016, 2, 493-497.	0.2	15
26	The Effect of a Diet Moderately High in Protein and Fiber on Insulin Sensitivity Measured Using the Dynamic Insulin Sensitivity and Secretion Test (DISST). <i>Nutrients</i> , 2017, 9, 1291.	1.7	15
27	Practical identifiability analysis of a minimal cardiovascular system model. <i>Computer Methods and Programs in Biomedicine</i> , 2019, 171, 53-65.	2.6	15
28	A Spectrum of Dynamic Insulin Sensitivity Test Protocols. <i>Journal of Diabetes Science and Technology</i> , 2011, 5, 1499-1508.	1.3	14
29	Impact of Haemodialysis on Insulin Kinetics of Acute Kidney Injury Patients in Critical Care. <i>Journal of Medical and Biological Engineering</i> , 2015, 35, 125-133.	1.0	14
30	Application of a meta-analysis of aortic geometry to the generation of a compliant phantom for use in particle image velocimetry experimentation. <i>IFAC-PapersOnLine</i> , 2015, 48, 407-412.	0.5	13
31	A modified approach to objective surface generation within the Gauss-Newton parameter identification to ignore outlier data points. <i>Biomedical Signal Processing and Control</i> , 2016, 30, 162-169.	3.5	13
32	Prediction of high airway pressure using a non-linear autoregressive model of pulmonary mechanics. <i>BioMedical Engineering OnLine</i> , 2017, 16, 126.	1.3	12
33	A deep learning spatial-temporal framework for detecting surgical tools in laparoscopic videos. <i>Biomedical Signal Processing and Control</i> , 2021, 68, 102801.	3.5	12
34	Non-identifiability of the Rayleigh damping material model in Magnetic Resonance Elastography. <i>Mathematical Biosciences</i> , 2013, 246, 191-201.	0.9	11
35	Utility of a novel error-stepping method to improve gradient-based parameter identification by increasing the smoothness of the local objective surface: A case-study of pulmonary mechanics. <i>Computer Methods and Programs in Biomedicine</i> , 2014, 114, e70-e78.	2.6	10
36	Estimation of secondary effect parameters in glycaemic dynamics using accumulating data from a virtual type 1 diabetic patient. <i>Mathematical Biosciences</i> , 2015, 266, 108-117.	0.9	10

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37	Performance of variations of the dynamic elastance model in lung mechanics. <i>Control Engineering Practice</i> , 2017, 58, 262-267.	3.2	10
38	A Minimal C-Peptide Sampling Method to Capture Peak and Total Prehepatic Insulin Secretion in Model-Based Experimental Insulin Sensitivity Studies. <i>Journal of Diabetes Science and Technology</i> , 2009, 3, 875-886.	1.3	9
39	Developments in Modelling Bone Screwing. <i>Current Directions in Biomedical Engineering</i> , 2020, 6, 111-114.	0.2	9
40	Practical identifiability of parametrised models: A review of benefits and limitations of various approaches. <i>Mathematics and Computers in Simulation</i> , 2022, 199, 202-216.	2.4	9
41	A polynomial model of patient-specific breathing effort during controlled mechanical ventilation. , 2015, 2015, 4532-5.		8
42	Student perspectives of independent and collaborative learning in a flipped foundational engineering course. <i>Australasian Journal of Educational Technology</i> , 0, , .	2.0	8
43	The Identification of Insulin Saturation Effects During the Dynamic Insulin Sensitivity Test. <i>Open Medical Informatics Journal</i> , 2010, 4, 141-148.	1.0	8
44	Multi-frequency inversion in Rayleigh damped Magnetic Resonance Elastography. <i>Biomedical Signal Processing and Control</i> , 2014, 13, 270-281.	3.5	7
45	Parametric-based brain Magnetic Resonance Elastography using a Rayleigh damping material model. <i>Computer Methods and Programs in Biomedicine</i> , 2014, 116, 328-339.	2.6	7
46	Regressive cross-correlation of pressure signals in the region of stenosis: Insights from particle image velocimetry experimentation. <i>Biomedical Signal Processing and Control</i> , 2017, 32, 143-149.	3.5	7
47	A Patient-Specific Airway Branching Model for Mechanically Ventilated Patients. <i>Computational and Mathematical Methods in Medicine</i> , 2014, 2014, 1-10.	0.7	6
48	Contact force estimation for serial manipulator based on weighted moving average with variable span and standard Kalman filter with automatic tuning. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 118, 3443-3456.	1.5	6
49	A Deep Learning Framework for Recognising Surgical Phases in Laparoscopic Videos. <i>IFAC-PapersOnLine</i> , 2021, 54, 334-339.	0.5	6
50	Review of the Development of Hemodynamic Modeling Techniques to Capture Flow Behavior in Arteries Affected by Aneurysm, Atherosclerosis, and Stenting. <i>Journal of Biomechanical Engineering</i> , 2022, 144, .	0.6	6
51	Observation of incretin effects during enteral feed transitions of critically ill patients. <i>E-SPEN Journal</i> , 2012, 7, e154-e159.	0.5	5
52	Reducing the Effect of Outlying Data on the Identification of Insulinaemic Pharmacokinetic Parameters with an Adapted Gauss-Newton Approach. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014, 47, 5635-5640.	0.4	5
53	Implementation of a Non-Linear Autoregressive Model with Modified Gauss-Newton Parameter Identification to Determine Pulmonary Mechanics of Respiratory Patients that are Intermittently Resisting Ventilator Flow Patterns. <i>IFAC-PapersOnLine</i> , 2015, 48, 354-359.	0.5	5
54	Laboratory diagnosis of gestational diabetes: An in silico investigation into the effects of pre-analytical processing on the diagnostic sensitivity and specificity of the oral glucose tolerance test. <i>Clinical Biochemistry</i> , 2017, 50, 506-512.	0.8	5

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55	Accurate and precise prediction of insulin sensitivity variance in critically ill patients. Biomedical Signal Processing and Control, 2018, 39, 327-335.	3.5	5
56	Principles of Product Design in Developing Countries. Applied System Innovation, 2018, 1, 11.	2.7	5
57	Traversing the Fuzzy Valley: Problems Caused by Reliance on Default Simulation and Parameter Identification Programs for Discontinuous Models. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 490-494.	0.4	4
58	Altered blood glucose dynamics during and after anhepatic phase of liver transplantation: A model-based approach. , 2013, , .		4
59	Clinical Validation of the Quick Dynamic Insulin Sensitivity Test. IEEE Transactions on Biomedical Engineering, 2013, 60, 1266-1272.	2.5	4
60	Parameter Identification Methods in a Model of the Cardiovascular System—This work was supported by the French Community of Belgium, the Belgian Funds for Scientific Research (F.R.S.-FNRS) and EU Marie Curie Actions (FP7-PEOPLE-2012-IRSES).. IFAC-PapersOnLine, 2015, 48, 366-371.	0.5	4
61	The dimensional reduction method for identification of parameters that trade-off due to similar model roles. Mathematical Biosciences, 2017, 285, 119-127.	0.9	4
62	Negative Lung Elastance in Mechanically Ventilated Spontaneously Breathing Patient. IFAC-PapersOnLine, 2017, 50, 15179-15184.	0.5	4
63	Model-based Modified OGTT Insulin Sensitivity Test Design. IFAC-PapersOnLine, 2018, 51, 86-91.	0.5	4
64	The Impact of Exogenous Insulin Input on Calculating Hepatic Clearance Parameters. Journal of Diabetes Science and Technology, 2022, 16, 945-954.	1.3	4
65	Model-based bone material property identification. Automatisierungstechnik, 2020, 68, 913-921.	0.4	4
66	Identifiability Analysis of a Pressure-Depending Alveolar Recruitment Model. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 137-142.	0.4	3
67	An Extension to the First Order Model of Pulmonary Mechanics to Capture a Pressure dependent Elastance in the Human Lung. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 1176-1181.	0.4	3
68	Pressure reconstruction method for spontaneous breathing effort monitoring. Critical Care, 2015, 19, .	2.5	3
69	Multi-frequency Rayleigh damped elastography: in silico studies. Medical Engineering and Physics, 2015, 37, 55-67.	0.8	3
70	The necessity of identifying the basal glucose set-point in the IVGTT for patients with Type 2 Diabetes. BioMedical Engineering OnLine, 2015, 14, 18.	1.3	3
71	Evaluation of pharmacokinetic model designs for subcutaneous infusion of insulin aspart. Journal of Pharmacokinetics and Pharmacodynamics, 2017, 44, 477-489.	0.8	3
72	Basis Function Modelling of Respiratory Patients with High or Low Auto-PEEP. IFAC-PapersOnLine, 2017, 50, 15121-15126.	0.5	3

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73	Basis function identification of lung mechanics in mechanical ventilation for predicting outcomes of therapy changes: A first virtual patient. IFAC-PapersOnLine, 2018, 51, 299-304.	0.5	3
74	The quadratic dimensional reduction method for parameter identification. Communications in Nonlinear Science and Numerical Simulation, 2019, 73, 425-436.	1.7	3
75	The contribution of gender segregated secondary education on the progression to engineering. Australasian Journal of Engineering Education, 2020, 25, 31-38.	0.2	3
76	An improved particle swarm optimization algorithm and its application in solving forward kinematics of a 3-DoF parallel manipulator. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 896-907.	1.1	3
77	In-vitro particle image velocimetry assessment of the endovascular haemodynamic features distal of stent-grafts that are associated with development of limb occlusion. Journal of the Royal Society of New Zealand, 2021, 51, 361-374.	1.0	3
78	PIV Analysis of Haemodynamics Distal to the Frozen Elephant Trunk Stent Surrogate. Cardiovascular Engineering and Technology, 2021, 12, 373-386.	0.7	3
79	In vitro pulsatile flow study in compliant and rigid ascending aorta phantoms by stereo particle image velocimetry. Medical Engineering and Physics, 2021, 96, 81-90.	0.8	3
80	Exposure to methoxyflurane: Low-dose analgesia and occupational exposure. Australasian Journal of Paramedicine, 0, 17, .	0.4	3
81	Changes of Physiological parameters of the patient during laparoscopic gynaecology. Current Directions in Biomedical Engineering, 2021, 7, 500-503.	0.2	3
82	Assessing Generalisation Capabilities of CNN Models for Surgical Tool Classification. Current Directions in Biomedical Engineering, 2021, 7, 476-479.	0.2	3
83	A three-compartment model of the C-peptideâ€“insulin dynamic during the DIST test. Mathematical Biosciences, 2010, 228, 136-146.	0.9	2
84	Impact of haemodialysis on insulin sensitivity of acute renal failure (ARF) patients with sepsis in critical care. , 2013, 2013, 3503-6.		2
85	A Novel Hierarchal-Based Approach to Measure Insulin Sensitivity and Secretion in At-Risk Populations. Journal of Diabetes Science and Technology, 2014, 8, 807-814.	1.3	2
86	Determining the relative efficacy of a number of PID and PD models that relate insulin secretion to bolus induced glucose excursions. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 2100-2105.	0.4	2
87	A Proportional-Derivative Endogenous Insulin Secretion model with an Adapted Gauss Newton Approach. IFAC-PapersOnLine, 2015, 48, 24-29.	0.5	2
88	Identifying pressure dependent elastance in lung mechanics with reduced influence of unmodelled effects. IFAC-PapersOnLine, 2015, 48, 401-406.	0.5	2
89	Evaluating different approaches to identify a three parameter gas exchange model. Current Directions in Biomedical Engineering, 2016, 2, 669-673.	0.2	2
90	Incorporating bolus and infusion pharmacokinetics into the ICING insulin model. Mathematical Biosciences, 2016, 281, 1-8.	0.9	2

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91	The Novel Dimensional Reduction Method and Tikhonov Regularisation in Parameter Identification of Non-Linear Ill-Posed Problems. IFAC-PapersOnLine, 2017, 50, 5474-5479.	0.5	2
92	The Need to Calculate Target Glucose Levels When Measuring Changes in Insulin Sensitivity During Interventions for Individuals With Type 2 Diabetes. Journal of Diabetes Science and Technology, 2018, 12, 665-672.	1.3	2
93	Assessment of the Dynamic Insulin Secretion and Sensitivity Test (DISST) Pre and Post Gastric bypass Surgery. Experimental and Clinical Endocrinology and Diabetes, 2020, 128, 164-169.	0.6	2
94	Serum fluoride levels following commencement of methoxyflurane for patient analgesia in an ambulance service. British Journal of Anaesthesia, 2020, 125, e457-e458.	1.5	2
95	Using the Adapted Levenberg-Marquardt method to determine the validity of ignoring insulin and glucose data that is affected by mixing. IFAC-PapersOnLine, 2020, 53, 16341-16346.	0.5	2
96	An Alternative Way to Measure Tidal Volumes. IFMBE Proceedings, 2021, , 66-72.	0.2	2
97	Methoxyflurane toxicity: historical determination and lessons for modern patient and occupational exposure. New Zealand Medical Journal, 2021, 134, 76-90.	0.5	2
98	DISTq: Low-cost, accurate and real-time estimation of insulin sensitivity. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 91-96.	0.4	1
99	Evaluation of the Performances and Costs of a Spectrum of Dynamic Insulin Sensitivity Test Protocols. , 2010, , .		1
100	Evaluation of a Glomerular Filtration Term in the DISST Model to Capture the Glucose Pharmacodynamics of an Insulin-Resistant Cohort.. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 1757-1762.	0.4	1
101	Clinical evaluation and interpretation of a proportional-derivative control model for endogenous insulin secretion response to glucose. , 2012, , .		1
102	Use of the DISST Model to Estimate the HOMA and Matsuda Indexes Using Only a Basal Insulin Assay. Journal of Diabetes Science and Technology, 2014, 8, 815-820.	1.3	1
103	An in-silico proof-of-concept investigation of a combined glucose-insulin bolus quick dynamic insulin sensitivity test. Biomedical Signal Processing and Control, 2014, 10, 332-337.	3.5	1
104	Interpolation within a Recruitment Manoeuvre using a Non-Linear Autoregressive Model of Pulmonary Mechanics. IFAC-PapersOnLine, 2015, 48, 297-302.	0.5	1
105	Effects of Different Models and Different Respiratory Manoeuvres in Respiratory Mechanics Estimation. IFMBE Proceedings, 2016, , 50-55.	0.2	1
106	The Influence of Airway Resistance in the Dynamic Elastance Model. IFMBE Proceedings, 2016, , 56-61.	0.2	1
107	Tracking the progression to type 2 diabetes with a proportional-derivative insulin secretion model. Control Engineering Practice, 2017, 59, 165-172.	3.2	1
108	Model based prediction of plateau pressure in mechanically ventilated patients. Current Directions in Biomedical Engineering, 2017, 3, 301-304.	0.2	1

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109	An analysis of the impact of the inclusion of expiration data on the fitting of a predictive pulmonary elastance model. <i>Current Directions in Biomedical Engineering</i> , 2018, 4, 255-258.	0.2	1
110	A bootstrap approach for predicting fluoride toxicity in paramedics after occupational methoxyflurane exposure. <i>IFAC Journal of Systems and Control</i> , 2019, 9, 100061.	1.1	1
111	The Effects of Additional Local-Mixing Compartments in the DISST Model-Based Assessment of Insulin Sensitivity. <i>Journal of Diabetes Science and Technology</i> , 2021, , 193229682110216.	1.3	1
112	A quantitative analysis of the short-term and mid-term benefit of a flipped classroom for foundational engineering dynamics. <i>Research Papers in Education</i> , 0, , 1-15.	1.7	1
113	An in-silico Analysis of the Ability of Dynamic Tests to Trace the Kinetic Behaviour of Insulin Sensitizer Drugs. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011, 44, 1751-1756.	0.4	0
114	Observation of changes in model-based insulin sensitivity during haemodialysis transitions for critically ill patients. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012, 45, 349-354.	0.4	0
115	Improving Minimal Model Identifiability in Insulin Resistant Patients Utilizing Insight from the Graphical Structural Model Identifiability Method. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012, 45, 236-241.	0.4	0
116	Respiratory airway resistance monitoring in mechanically ventilated patients. , 2012, , .		0
117	The Regional Conjugate Optimisation Approach: A Novel Method for Three Parameter Identification of Physiological Models. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014, 47, 3893-3898.	0.4	0
118	Virtual Trials with b-spline Basis Functions and Stochastic Differential Equations. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014, 47, 10976-10981.	0.4	0
119	The precision of identified variables with respect to multivariable set size in glycaemic data from a virtual type 1 diabetic patient. <i>IFAC-PapersOnLine</i> , 2015, 48, 82-87.	0.5	0
120	An eigen-analysis of the relationships between model structure, discrete data, measurement error and resulting parameter identification distributions. <i>IFAC-PapersOnLine</i> , 2015, 48, 88-93.	0.5	0
121	Resistance in a non-linear autoregressive model of pulmonary mechanics. <i>Current Directions in Biomedical Engineering</i> , 2016, 2, 623-627.	0.2	0
122	Inspiratory and expiratory elastance in a non-linear autoregressive model of pulmonary mechanics. <i>Current Directions in Biomedical Engineering</i> , 2016, 2, 629-632.	0.2	0
123	Early clinical trial termination: Simulation-based design of a robust stopping rule using difference in interventional effect on mortality. , 2016, , .		0
124	Predicting the Effects of Changing PEEP Using a Basis Function Method. <i>IFAC-PapersOnLine</i> , 2017, 50, 5468-5473.	0.5	0
125	Plateau Pressure Prediction in ARDS Patients. <i>IFAC-PapersOnLine</i> , 2017, 50, 5480-5485.	0.5	0
126	The effect of measurement error on the hierarchical identification of a gas exchange model. <i>IFAC-PapersOnLine</i> , 2017, 50, 15145-15150.	0.5	0

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127	Comparing three differing approaches to identify a three-parameter gas-exchange model with noisy data. IFAC Journal of Systems and Control, 2019, 7, 100038.	1.1	0
128	Authors'™ Response to Drs. Ece Salihoglu and Ziya Salihoglu's™ Letter to the Editor. Annals of Biomedical Engineering, 2020, 48, 2-3.	1.3	0
129	An in-silico study of the effect of non-linear skin dynamics on skin-mounted accelerometer inference of skull motion. Biomedical Signal Processing and Control, 2021, 70, 102986.	3.5	0
130	An In-silico Simulation of Pressure Wave Excursions after Impact to the Frontal Lobe of a Homogenous Model of the Brain. IFAC-PapersOnLine, 2020, 53, 16281-16285.	0.5	0